

NASA REDUCED GRAVITY STUDENT FLIGHT OPPORTUNITIES PROGRAM JOHNSON SPACE CENTER 2003 FLIGHT CAMPAIGN

TO: Flight Crew and Alternate Flight Crew Members (Students and Journalists)
 RE: Medical Examination Requirements for Flight Crew Members – 2003 Flights

NASA/JSC requires that all prospective flight crew / alternate flight crew members / journalists participating in the NASA Reduced Gravity Student Flight Opportunities Program complete a medical examination performed by a qualified FAA Certified Aviation Medical Examiner (AME) or Designated Military Flight Surgeon. The examination data is then reviewed by NASA's Physiological Training Office to determine an individual's "fitness for flight". Once they are physically qualified, individuals are eligible to participate in a Physiological Training course at JSC (which they will attend as part of their Houston experience).

A complete "Medical Examination Packet" is attached which includes:

- Letter of explanation addressed to the FAA Certified Aviation Medical Examiner (AME)
- NASA/JSC Medical Examination Requirements
- Height and Weight Table / Common Omissions
- JSC Form 8500 Report of Medical Examination (Rev 8/00) two pages
 - Page 1 to be completed by applicant
 - Page 2 to be completed by FAA Certified Aviation Medical Examiner (AME)

Each flight team member is responsible for the following:

- Locate a FAA Certified Aviation Medical Examiner (AME) and make an appointment. For March 2003 flyers, medical exam results are due no later than January 31, 2003 to JSC. For April 2003 flyers, medical exam results are due no later than February 28, 2003 to JSC. For July 2003 flyers, medical exam results are due no later than May 15, 2003 to JSC. The FAA website provides a Directory of Aviation Medical Examiners at http://www.cami.jccbi.gov/AAM-400/index.html.
- Read through this entire Medical Exam packet so you will be familiar with its contents and any additional medical exams (beyond the basic) that may apply to you.
- Make sure to print the team's school and your full legal name in top right corner on each page of the medical forms.
- Complete page one of the JSC 8500 (your medical history).
- Report to AME for medical exam. Don't forget to bring the letter to the physician, Medical Exam Requirements, Height
 and Weight Table/Common Omissions and JSC 8500 forms.
- Pay all expenses associated with the medical exam.
- Check with the physician's office after the exam is completed to make sure that the report has been signed and forwarded
 to JSC by the deadline date. The physician's staff should fax the forms directly to the NASA Physiological Training
 Office.

Additional Notes:

- Female flight crew members should notify the FAA Certified Aviation Medical Examiner if there is reason to suspect pregnancy.
- Flight crew members who have been previously certified as "qualified" to fly as part of this program MAY be exempt from the medical exam and/or physiological training requirement. Please provide the team member's full legal name and date of program participation to JSC's Program Administrator (Deanna Wilmore) for verification.
- Flight crew members who hold a pilot's license MAY be exempt from the Medical Exam requirement. A complete copy
 of the qualifying medical exam report MUST be provided to the JSC Physiological Training Officer for determination. A
 copy of the medical certificate or pilot's license is NOT required.

Direct questions concerning the NASA/JSC medical examination requirements for program participants to:

Mike Fox, Physiological Training Officer Phone: 281-792-5724

email: mike.fox1@jsc.nasa.gov

Fax: 281-792-5731

Remember to bring all of this with

you when you go for your physical!



NASA REDUCED GRAVITY STUDENT FLIGHT OPPORTUNITIES PROGRAM JOHNSON SPACE CENTER 2003 FLIGHT CAMPAIGN

December 26, 2001

Dear FAA Certified Aviation Medical Examiner / Designated Military Flight Surgeon:

The person who has given you this letter is a member of a university team that has been selected to fly a micro-gravity experiment aboard NASA's KC-135A reduced gravity aircraft. NASA / JSC specifies that all prospective flyers must obtain a medical examination performed by a certified FAA Certified Aviation Medical Examiner or Designated Military Flight Surgeon. The examination, however, is not considered to be an official FAA exam; the results are for NASA use only.

Attached to this letter, you should find:

- NASA/JSC Medical Examination Requirements
- Height and Weight Table / Common Omissions
- JSC Form 8500 Report of Medical Examination (Rev 8/00) two pages
 - Page 1 to be completed by applicant
 - Page 2 to be completed by FAA Certified Aviation Medical Examiner

After the examination, please fax ONLY the signed and completed JSC Form 8500 (two pages) to:

NASA Johnson Space Center Human Test Support Group - Mail Code SD-37 Houston, Texas 77058

Attn: Mike Fox, Physiological Training Officer

Fax: 281-792-5731

Please do not send EKGs, laboratory analyses, etc.

The NASA Physiological Training Office finds the following items **frequently omitted** on the JSC Form 8500, Report of Medical Examination. Before faxing the form to Johnson Space Center, PLEASE ask your staff to ensure all items are completed, including:

	Record results in:
Applicant's Height and Weight	Blocks 14 & 15
AME's Comments on History and Findings from Item 12	Block 51
Results of EKG (for applicants age 35 or older)	Block 49
AME's Name, Signature, Serial Number & Phone Number	Block 54

Questions concerning any of the medical requirements contained herein should be directed to:

Mike Fox, Physiological Training Officer Ph: 281-792-5724

email: mike.fox1@jsc.nasa.gov

Thank you for helping NASA provide this outstanding educational experience to college students. If you have any further questions, please don't hesitate to contact Ms. Barbara Ebadat, Deputy Program Administrator at 281-483-7847.

With best regards, Barbara Ebadat Microgravity University Deputy Program Administrator

MEDICAL EXAMINATION REQUIREMENTS NASA REDUCED GRAVITY STUDENT FLIGHT OPPORTUNITIES PROGRAM 2003 Flight Campaign

EXAMINING PHYSICIAN: MUST be FAA Certified Aviation Medical Examiner (AME).

EXAM REQUIREMENTS: Applicant's Medical History and Physical Examination is reported on JSC Form 8500 (attached). This examination is NOT considered to be an official FAA exam. Medical results/opinions reported are for NASA use only. The Chief of the Medical Sciences Division at the Johnson Space Center serves as the final authority on the examinee's qualification for flight aboard the KC-135 microgravity aircraft.

FAA GUIDE FOR AVIATION MEDICAL EXAMINERS

	Medical Standards – Effective September 16, 1996 - Third Class Medical Certificate
DISTANT VISION	20/40 or better in each eye separately, with or without correction.
NEAR VISION	20/40 or better in each eye separately (Snellen equivalent), with or without correction, as measured at 16 inches.
INTERMEDIATE VISION	No requirement.
COLOR VISION	Ability to perceive those colors necessary for safe performance of airman duties.
HEARING	Demonstrate hearing of an average conversational voice in a quiet room, using both ears at 6 feet, with the back turned to the examiner or pass one of the audiometric tests below (Speech Discrimiation or Pure Tone)
AUDIOLOGY	Audiometric Speech Discrimination Test (Whisper Test): Score at least 70% discrimination in one ear. Pure tone Audiometric Test: Unaided, with thresholds no worse than: 500 Hz 1.000 Hz 2.000 Hz 3.000 Hz
	Better Ear 35 Db 30Db 30 Db 40 Db
ENT	No ear disease or condition manifested by, or that may reasonably be expected to be manifested by, vertigo or a disturbance of speech or equilibrium.
PULSE	No disqualifying per se. Used to determine cardiac system status and responsiveness.
BLOOD PRESSURE	No specified values stated in the standards. Hypertension covered under general medical standard and in the <i>Guide for Aviation Medical Examiners</i> .
EKG	Not routinely required for persons under the age of 35. Required at age 35 and within the past year for persons age 40 and over.
MENTAL	No diagnosis of psychosis, or bipolar disorder, or severe personality disorders.
SUBSTANCE DEPENDENCE / SUBSTANCE ABUSE	A diagnosis or medical history of substance dependence "is disqualifying unless there is established clinical evidence, satisfactory to the Federal Air Surgeon, of recover, including sustained total abstinence from the substance(s) for not less than the preceding 2 years. A history of "substance" abuse within the preceding 2 years is disqualifying. "Substance" includes alcohol and other drugs (i.e., PCP, sedatives and hynoptics, anxiolytics, marijuana, cocaine, opioids, amphetamines, hallucinogens, and other psychoactive drugs or chemicals).
CONDITIONS THAT DISQUALIFY	Examiner must disqualify if the applicant has a history of - Diabetes mellitus requiring hypoglycemic medication; - Permanent cardiac pacemaker; - Substance abuse; - Epilepsy; - Angina pectoris; - Psychosis; - Disturbance of consciousness - Coronary heart disease that has been treated or, if untreated, that has been symptomatic or clinically significant; - Personality disorder that is severe enough to or clinically significant; - Myocardial infarction; - Substance dependence; - Substance dependence; - Without satisfactory explanation of cause

MEDICAL EXAMINATION REQUIREMENTS HEIGHT / WEIGHT / COMMON OMISSIONS NASA REDUCED GRAVITY STUDENT FLIGHT OPPORTUNITIES PROGRAM 2003 Flight Campaign

HEIGHT AND WEIGHT TABLE

	MALES		FEMALES							
HEIGHT (inches)	WEIG	нт	HEIGHT (inches)	WEIGHT						
	MINIMUM LBS	MAXIMUM LBS		MINIMUM LBS	MAXIMUM LBS					
58	98	171.4	58	88	151.8					
59	99	173.7	59	90	154.1					
60	100	176.0	60	92	156.4					
61	102	178.3	61	95	158.7					
62	103	181.7	62	97	162.2					
63	104	184.0	63	100	163.3					
64	105	188.6	64	103	167.9					
65	106	194.4	65	106	172.5					
66	107	200.1	66	108	178.3					
67	111	205.9	67	111	182.9					
68	115	211.6	68	114	188.6					
69	119	217.4	69	117	193.2					
70	123	223.1	70	119	199.0					
71	127	228.9	71	122	203.6					
72	131	235.8	72	125	209.3					
73	135	242.7	73	128	216.2					
74	139	250.7	74	130	223.1					
75	143	257.6	75	133	228.9					
76	147	264.5	76	136	235.8					
77	151	271.4	77	139	241.5					
78	153	278.3	78	141	247.3					
79	157	285.2	79	144	254.2					
80	161	292.1	80	147	259.9					

COMMON OMISSIONS

The NASA Physiological Training Office frequently finds the following items commonly omitted on the JSC 8500 Medical Examination Form. Before faxing the form to the Johnson Space Center, please check to make sure all items are completed, including:

Applicant's Height and Weight

AME's Comments on History and Findings from Item 12

Results of EKG (for applicants age 35 or older)

AME's Name, Signature, Serial Number & Phone Number

Block 54

RGSFOP	SCHOOL	FULL LEGAL NAME

JSC FORM 8500 - REPORT OF MEDICAL EXAMINATION - PAGE 1 of 2

					AP			T COMPLETE THIS MEDICA E OR PRINT CLEARLY IN DA		RY			
	APPLICA GSFOP	TION	FOR	2. LAST NAME				FIRST NAME		N	/IIDDI	LE NA	ME
3.	SSN			4. STREET ADDRE	ESS		C	ITY	STATI	Ξ	ZIP		PHONE # ()
5.	5. DOB (M/D/Y) 6. SEX 7. HAIR COLOR 8. EYE COLOR 9. STUDENT FACULTY 10. SCHOOL OR EMPLOYER 11. DO YOU CURRENTLY USE ANY MEDICATION (prescription or non-prescription)? YES NO If yes, list name, purpose dosage & frequency of use below. Attach additional sheet if needed.										OL OR EMPLOYER		
11	. DO YOU	J CURI	RENTLY U	JSE ANY MEDICATIO	N (presc	ription or no	n-prescript	ion)? YES NO If yes, list name	e, purpose dosa	ge & free	quency of	f use below	w. Attach additional sheet if needed.
12				ve you EVER HAD, or do approximate date of occur				e following conditions? Answer "YES" provided below.	for every co	ndition	you ha	ve ever l	nad in your life.
	YES	NO	COND	ITION		YES	NO	CONDITION		Y	ES	NO	CONDITION
A			FREQU HEADA	ENT OR SEVERE ACHES	I			STOMACH, LIVER OR INTEST TROUBLE	ΓINAL	Q			MOTION SICKNESSS REQUIRING MEDICATION
В			DIZZIN SPELLS	ESS OR FAINTING	J			KIDNEY STONE OR BLOOD IN URINE	N .	R			MILITARY MEDICAL DISCHARGE
С			UNCON ANY R	NSCIOUSNESS FOR EASON	K			DIABETES		S			MEDICAL REJECTION BY MILITARY SERVICE
D				R VISION TROUBLE PT GLASSES)	L			NEUROLOGICAL DISORDERS EPILEPSY, SEIZURES, STROK PARALYSIS, ETC.		Г			REJECTION FOR LIFE OR HEALTH INSURANCE
Е			HAY FI	EVER OR ALLERGY	М			MENTAL DISCORDERS OF AN SORT: DEPRESSION, ANXIET ETC.		U	ADMISSION TO HOSP		ADMISSION TO HOSPITAL
F			ASTHM	1A OR LUNG DISEASE	N			SUBSTANCE DEPENDENCE O FAILED DRUG TEST (EVER), SUBSTANCE ABUSE OR USE O ILLEGAL SUBSTANCE IN THE LAST FIVE YEARS.	OR OF	V			OTHER ILLNESS, DISABILITY OR SURGERY.
G			HEART TROUE	OR VASCULAR BLE	О			ALCOHOL DEPENDENCE OR ABUSE					
Н			HIGH C	OR LOW BLOOD URE	P			SUICIDE ATTEMPT					
			·					lition and the approximate date of occurr			al page	if necess	sary.
_	. HAVE Y	_		HEALTH PROFESSIO ESS & TYPE OF HEAL				ST 3 YEARS? YES (LIST BELO	OW) NO		VICIT		
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													y any trick, scheme or device, a material fact;
		_	e, fictitious o		oresentat	ions or ent	ry, may l	pe fined up to \$250,000 or imprisoned for	r not more th	ian 3 ye		both (18 DATE	3 U.S. Code Sections 1001; 3571).

JSC FORM 8500 / STUDENT CAMPAIGNS / REV 12/01

RGSFOP	SCHOOL	FULL LEGAL NAME

JSC FORM 8500 - REPORT OF MEDICAL EXAMINATION - PAGE 2 OF 2

FAA CERTIFIED AME MUST COMPLETE THIS PHYSICAL EXAMINATION PLEASE TYPE OR PRINT CLEARLY IN DARK INK CHECK COLUMN FOR EACH ITEM NORMAL ABNORMAL CHECK COLUMN FOR									14. HEIG	GHT (INCI	HES)	15. WI	CIGHT (LBS)			
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17 NOSE							etc) 29. ABDOMEN & VISCERA (including hernia)									
17. NOSE 18. SINUSES	9					3	9. ABDOME	t includin	RA (Inclu	ding nern	ia)					
19. MOUTH		ROAT					30. ANUS (not including digital exam) 31. SKIN									
	20. EARS, GENERAL (internal & external canals;						32. G-U SYSTEM (not including pelvic exam)									
	hearing under item #40)															
	21. EAR DRUMS (perforation)						33. UPPER AND LOWER EXTREMETIES (strength/range of motion) 34. SPINE, OTHER MUSCULOSKELETAL									
,	22. EYES, GENERAL (vision under items #41-45) 23. OPHTHALMOSOPIC										toos) (size &	lo ootion)				
24. PUPILS			nn)				6. LYMPHAT		MARKS (scars, rai	toos) (size &	location)	'			
	` 1 2		parallel movemen	t.					on reflex	es, equilib	rium, senses,	cranial.				
nystagmus)				,		n	erves, coord	lination, e	etc)							
26. LUNGS	& CHEST	(excludin	ig breasts)					TRIC (appe	earance, b	ehavior, 1	nood, commu	nication,				
27. HEART	(precardi	al activity	, rhythm, sounds,				nemory) 9. GENERAL	SYSTEMIC	С							
murmurs)	•															
NOTES:	Describ	e any ab	ove items check	ked "abnormal" ir	ı detail. Eı	nter item	number b	efore ea	ch comr	nent. Us	e additional	sheet if	necessa	nry.		
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 ${\tt JSC\ FORM\ 8500\,/\ STUDENT\ CAMPAIGNS\,/\ REV\ 12/01}$